

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-28-81			
Company El Paso Natural Gas Company				Connection Northwest Pipeline Corp.					
Pool S. Blanco				Formation Pictured Cliff				Unit San Juan 28-6	
Completion Date 1-14-81		Total Depth 5966		Plug Back TD 5950		Elevation 6684 Gr		Farm or Lease Name San Juan 28-6 Unit	
Csq. Size 7.000	Wt. 20.0	d 6.456	Set At 3703	Perforations: From 3376 To 3436		Well No. #10A			
Tbg. Size 1.660	Wt. 2.33	d 1.380	Set At 3407	Perforations: From To		Unit Sec. Twp. Rge. P 25 28 6			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 3537		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	Gg 0.65	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1047		1062		14 Days
1.	Choke		0.750	50		50			303		3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Comp. Factor F _{sc}	Rate of Flow Q, Mcfd
1	12.365		62	1.0098	0.9608	1.0000	100.0
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	_____ Deg.
2.					Specific Gravity Separator Gas	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
5.					Critical Temperature _____ R	_____ R

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1	1074	315	99225	1054251
2.				
3.				
4.				
5.				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0941$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 810$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0795$

Absolute Open Flow	810	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	0.85
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Remarks: Gas Vented - 139 MCF. The Well Blew Dry Gas Throughout the Test.

Approved by Division	Conducted By: Mel Wileman	Calculated By: H. E. McAnally	Checked By:
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